

IN THE UNITED STATES DESIGNATED/ELECTED OFFICE

International Application No. : PCT/EP2005/000909
International Filing Date : 31 January 2005 (31.01.2005)
Priority Date(s) Claimed : 24 February 2004 (24.02.2004)
Applicant(s) (DO/EO/US) : Matthew FRANCIS, et al.

Title: LIQUID CRYSTAL COMPOSITION FOR BISTABLE LIQUID CRYSTAL
DEVICES

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR §§ 1.56, 1.97 and 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This information disclosure statement is made in accordance with 37 C.F.R. §§ 1.56, 1.97 and 1.98 as follows:

Timing and Fees

- ☒ Under 37 C.F.R. § 1.97(b), no fee or statement is required for filing this information disclosure statement is filed:
- ☐ within three months of the filing date of a national application other than a CPA under § 1.53(d);
 - ☒ within three months of the actual filing date of the national phase of a PCT application; OR
 - ☐ before the mailing of a first substantive office action (including after filing of an RCE).
- ☐ Under 37 C.F.R. § 1.97(c), this information disclosure statement is filed after the periods specified in 37 C.F.R. § 1.97(b), but before the mailing date of:
- a final rejection under 37 C.F.R. 1.113;
 - termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P § 609(B)(2); OR
 - a notice of allowance under 37 C.F.R. § 1.311; and

is accompanied by:

- ☐ the statement as specified in 37 C.F.R. § 1.97(e) set out below; OR
- ☐ a check covering the fee of \$180.00 under 37 C.F.R. § 1.17(p).

☐ Under 37 C.F.R. § 1.97(d), this information disclosure statement is filed after the mailing date of the following actions which have not been withdrawn:

- ☐ a final action under 37 C.F.R. § 1.113;
- ☐ termination of prosecution, e.g. Ex Parte Quayle, M.P.E.P. § 609(B)(2);
- ☐ OR a notice of allowance under 37 C.F.R. § 1.311;

AND is filed on or before payment of the issue fee; AND is accompanied by:

the statement as specified in 37 C.F.R. § 1.97(e) as set forth below, and the fee of \$180.00 under 37 C.F.R. § 1.17(p).

Statements Under 37 C.F.R. 1.97(e)

- ☐ Each item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application having a mailing date not more than three months prior to the filing date of this information disclosure statement; or
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and to the knowledge of the undersigned attorney after making reasonable inquiry, no item of information contained in this information disclosure statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing date of the information disclosure statement.

Cited Materials

- ☐ Copies of materials listed but not attached were cited in benefit (35 U.S.C. § 120) ancestor application Serial No. _____, on Form 892 by the Examiner and/or Form 1449 by the applicant; see 37 C.F.R. § 1.98(d).
- ☒ Copies of materials listed but not attached were cited in an international search report dated June 24, 2005.
- ☐ Not required by 37 CFR § 1.98.
- ☐ Copies of the materials listed are attached (except for the foregoing).

Non-English Language References

- ☒ An English-language search report or equivalent paper from a foreign patent office is provided indicating the relevance of the cited reference(s).
- ☐ A foreign-language search report from a foreign patent office is provided, and pertinent parts are translated substantively below:
- X = document of particular relevance when it is taken alone
Y = document of particular relevance when it is combined with another such document
A = document defining the general state of the art
O = non-written disclosure
P = intercalated document
T = document cited to understand the theory or principle underlying the invention
E = patent document which has the benefit of a date earlier than the filing date and which was published only on or after this filing date
D = cited in the application
L = cited for another reason
& = publication of member of same patent family
- ☐ Translation of other relevant information on foreign search report

Other Information

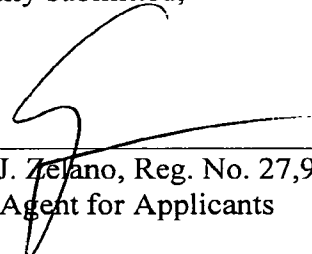
Payment of Fees Due (If Any):

- ☐ A check for \$_____ covering the fee identified above is attached.
- ☐ Please charge to Deposit Account No. 13-3402 \$_____ for the fee identified above.

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☒ The Commissioner is hereby authorized to charge or credit any overpayment to Deposit Account #13-3402, two copies of this paper are attached for this purpose.

Respectfully submitted,



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Attorney/Agent for Applicants

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Attorney Docket No.: MERCK-3221

Date: August 23, 2006

AJZ:ssr

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

Application Number	USNP of PCT/EP2005/000909
Filing Date	31 January 2005 (31.01.2005)
First Named Inventor	Matthew FRANCIS, et al.
Group Art Unit	unknown
Examiner Name	unknown
Attorney Docket Number	MERCK-3221

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
	001	6,599,589	B1	IWAMATSU ET AL.	07-29-2003
	002	6,287,647	B1	KOBAYASHI ET AL.	09-11-2001
	003	2004/076769	A1	NAKATA ET AL.	04-22-2004
	004	2003/077405	A1	MIYAZAWA, ET AL.	04-24-2003
	005	5,458,804	A	YAMADA, ET AL.	10-17-1995

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	006	JP	09 217062	A	CHISSO CORP	08-19-1997		
	007	JP	2000 336360	A	KYOCERA CORP	12-05-2000		
	008	JP	2003 147362	A	DAINIPPON INK & CHEM INC.	05-21-2003		
	009	EP	1 245 660	A	CHISSO CORP, E T AL.	10-02-2002		004
	010	EP	0 571 955	A	CANON KABUSHIKI KAISHA	12-01-1993		005
	011	WO	2004/053020	A	MERCK PATENT GMBH	06-24-2004		
	012	WO	2004/053021	A	MERCK PATENT GMBH	06-24-2004		
	013	WO	2004/099343	A	MERCK PATENT GMBH	11-18-2004		

Examiner
Signature

/Geraldina Visconti/

Date
Considered

09/25/2008

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached. Number refers to English language corresponding family member.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 2 of 2

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First Named Inventor	Matthew FRANCIS, et al.
Group Art Unit	unknown
Examiner Name	unknown
Attorney Docket Number	MERCK-3221

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	014	DATABASE WPI; SECTION CH, WEEK 199743, DERWENT PUBLICATIONS LTD., LONDON, GB; CLASS E19, AN 1997-466326; XP002330805	
	015	DATABASE WPI; SECTION CH, WEEK 200111; DERWENT PUBLICATIONS LTD., LONDON, GB; CLASS L03, AN 2001-098003; XP002330806	
	016	PATENT ABSTRACTS OF JAPAN; VOL. 2003, NO. 09, 09-03-2003	
	017	GOTO ET AL: "FLUORINATED LIQUID CRYSTALS FOR ACTIVE MATRIX DISPLAYS" MOLECULAR CRYSTALS AND LIQUID CRYSTALS, GORDON AND BREACH, OOLONDON, GB, VOL. 209, 1991, PAGES 1-7, XP009033843; ISSN: 0026-8941	
	018	JONES ET AL: "P-26.3: LOW VOLTAGE ZENITHAL BISTABLE DEVICES WITH WIDE OPERATING WINDOWS" 2003 SID INTERNATIONAL SYMPOSIUM DIGEST OF TECHNIACL PAPERS, VOL. XXXIV, 2003, PAGES 954-958, XP007008277	
	019	JONES ET AL: "NOVEL BISTABLE LIQUID CRYSTAL DISPLAYS BASED ON GRATING ALIGNMENT: PROCEEDINGS OF THE SPIE, SPIE, BELLINGHAM, VA, US, VOL. 3955, 01-27-2000, PAGES 84-93, XP008003419; ISSN: 0277-786X	

Examiner Signature	/Geraldina Visconti/	Date Considered	09/25/2008
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* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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